

**Notice of Allowability**

Application No.

10/032,228

Examiner

Pramila Parthasarathy

Applicant(s)

GEHRING ET AL.

Art Unit

2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/10/2007.
2. ☒ The allowed claim(s) is/are 4-12, 15-19, 21-23, 26-30, 32-34, 37-41, 44-46, 50-58, 61-67, 70-77 and 80-93.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

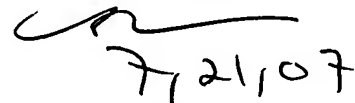
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>7/3/2007</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|  | 9. <input type="checkbox"/> Other _____  |

NASSER MOAZZAMI  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

  
7, 21, 07

## **DETAILED ACTION**

### **Status of the Claims**

1. Claims 1-3, 13-14, 20,24-25,31, 35-36,42-43,47-49,59-60,68-69,78-79, have been cancelled.

### ***Allowable Subject Matter***

2. In view of the arguments/remarks presented on 1/11/2007, and amendments to Claims 4-12, 15-19,21-23,26-30,32-34,37-41,44-46,50-58,61-67,70-77, 80-93 and in response to Applicant's initiated telephone interview with Jim Ohare, Claims 4-12, 15-19,21-23,26-30,32-34,37-41,44-46,50-58,61-67,70-77, 80-93 are allowed. Claim 44 now depends on amended claim 34. Allowed claims are renumbered as 1 – 71.

3. The following is an examiner's statement of reasons for allowance: The Admitted prior art Abdo et al U.S. Publication 2002/0080967 discloses "a process for providing a secure data link includes providing a wireless peripheral device with an encryption key generated by a host system, without directly transmitting the encryption key to the wireless peripheral device, and validating that an encryption/decryption process of a secure link is operation, again without having to transmit an encryption key directly between the wireless devices".

However, the admitted prior arts do not disclose, teach or suggest "an encryption unit configured to encrypt a message containing the first encryption key, the message encrypted with the second encryption key; a radio configured to transmit the message over the wireless network, the subsequent message encrypted with the first encryption

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key; a decryption unit configured to decrypt the subsequent message received from the radio, with the first encryption key; and a selector configured to select between the encryption key storage units as input to the encryption unit and decryption unit".

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jim Ohare, registration number 56,574 on July 19, 2007.

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IN THE CLAIMS:

4. (Amended) An apparatus comprising:

a first encryption key storage unit configured to store a first encryption key;

a second encryption key storage unit configured to contain a second encryption key;

an encryption unit configured to encrypt a message containing the first encryption key, the message encrypted with the second encryption key;

a radio configured to transmit the message over a wireless network and configured to receive a subsequent message over the wireless network, the subsequent message encrypted with the first encryption key;

a decryption unit configured to decrypt the subsequent message received from the radio, with the first encryption key;

a protocol management unit configured to convey the subsequent message to a host device, wherein the apparatus further comprises:

a selector configured to select between the encryption key storage units as input to the encryption unit and decryption unit.

12. (Amended) A method comprising:

- receiving, at a module, a second encryption key;
- storing the second encryption key in a second encryption key storage unit;
- selecting the second encryption key from the second encryption key storage unit as an encryption ~~input~~ key;
- transmitting, from the module, a message containing a first encryption key over a wireless network, the message encrypted with the second encryption key;
- selecting the first encryption key from the ~~a~~ a first encryption key storage unit as a decryption ~~input~~ key;
- receiving, at the module, a subsequent message encrypted with the first encryption key;
- decrypting the subsequent message with the first encryption key; and
- conveying the subsequent message to a host device.

23. (Amended) A computer-readable medium encoded with data and instructions, the data and instructions causing an apparatus executing the instruction to:

- receive, at a module, a second encryption key;
- store the second encryption key in a second encryption key storage unit;
- select the second encryption key from the second encryption key storage unit as an encryption ~~input~~ key;
- transmit, from the module, a message containing a first encryption key over a wireless network, the message encrypted with the second encryption key;

select the first encryption key from ~~the~~ a first encryption key storage unit as a decryption ~~input~~ key;

receive, at the module, a subsequent message encrypted with the first encryption key;

decrypt the subsequent message with the first encryption key; and  
convey the subsequent message to a host device.

34. (Amended) An apparatus comprising:

means for receiving, at a module, a second encryption key;

means for storing the second encryption key in a second encryption key storage unit;

means for selecting the second encryption key from the second encryption key storage unit as an encryption ~~input~~ key;

means for transmitting, from the module, a message containing a first encryption key over a wireless network, the message encrypted with the second encryption key;

means for selecting the first encryption key from ~~the~~ a first encryption key storage unit as a decryption ~~input~~ key;

means for receiving, at the module, a subsequent message encrypted with the first encryption key;

means for decrypting the subsequent message with the first encryption key; and

means for conveying the subsequent message to a host device.

58. (Amended) A method comprising:

receiving a message over a wireless network from a host, the message encoded with a first encryption key and containing a second encryption key;

decrypting the received message using the first encryption key selected as a decryption ~~input~~ key from a first encryption key storage unit storing ~~the~~ a first encryption key, extracting the second encryption key;

storing the second encryption key in a second encryption key storage unit;

selecting the second encryption key from the second encryption key storage unit as an encryption ~~input~~ key;

encrypting the subsequent messages with the second encryption key; and


sending the encrypted subsequent messages to the host over the wireless network.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pramila Parthasarathy whose telephone number is 571-272-3866. The examiner can normally be reached on 8:00a.m. To 5:00p.m.. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on 571-232-4195. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR only. For more information about the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pramila Parthasarathy  
July 19, 2007.

NASSER MOAZZAMI  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

  
7,21,07